

## DISCRETE APPLIED MATHEMATICS

Volume 87, Numbers 1-3, 5 October 1998

Abstracted/Indexed in: ACM Computing Reviews, Cambridge Scientific Abstracts, Current Contents: Physical, Chemical & Earth Sciences, Engineering Index/Compendex, INSPEC Information Services, International Abstracts in Operations Research, Mathematical Reviews, PASCAL, Science Citation Index, Statistical Theory and Method Abstracts, Zentralblatt für Mathematik.

## Contents

### Contributions

*E. Balas and M. Oosten*

On the dimension of projected polyhedra 1

*A. Caprara*

Properties of some ILP formulations of a class of partitioning problems 11

*J.D. Chavez and R. Trapp*

The cyclic cutwidth of trees 25

*K. Diks, E. Kranakis and A. Pelc*

Perfect broadcasting in unlabeled networks 33

*R.D. Dutton*

Inversions in  $k$ -sorted permutations 49

*H. Enomoto, Y. Oda and K. Ota*

Pyramidal tours with step-backs and the asymmetric traveling salesman problem 57

*P.L. Erdős, A. Frank and L. Székely*

Minimum multiway cuts in trees 67

*M.A. Fiol and E. Garriga*

The alternating and adjacency polynomials, and their relation with the spectra and diameters of graphs 77

*P. Flocchini, A. Roncato and N. Santoro*

Symmetries and sense of direction in labeled graphs 99

*N. Guttmann-Beck and R. Hassin*

Approximation algorithms for minimum tree partition 117

*T. Head*

Splicing representations of strictly locally testable languages 139

<i>E. Levner and V. Kats</i>	
A parametric critical path problem and an application for cyclic scheduling	149
<i>M. Libura, E.S. van der Poort, G. Sierksma and J.A.A. van der Veen</i>	
Stability aspects of the traveling salesman problem based on $k$ -best solutions	159
<i>C.-M. Liu and M.-S. Yu</i>	
An optimal parallel algorithm for node ranking of cographs	187
<i>C.L. Lu and C.Y. Tang</i>	
Solving the weighted efficient edge domination problem on bipartite permutation graphs	203
<i>F.S. Roberts and L. Sheng</i>	
Phylogeny numbers	213
<i>A. Tamir</i>	
Fully polynomial approximation schemes for locating a tree-shaped facility: A generalization of the knapsack problem	229
<i>H.-G. Yeh and G.J. Chang</i>	
Weighted connected domination and Steiner trees in distance-hereditary graphs	245
<i>N. Zhu</i>	
A relation between the knapsack and group knapsack problems	255
<b>Notes</b>	
<i>A.Y. Alfakih and K.G. Murty</i>	
Adjacency on the constrained assignment problem	269
<i>S.L. Bezrukov and U.-P. Schroeder</i>	
The cyclic wirelength of trees	275
<i>Z. Zhang, L. Liu, J. Zhang and J. Wang</i>	
On the relations between arboricity and independent number or covering number	279
Author Index	285

